

WHAT IS CLAIMED IS:

1. A hardenable flowable substance for application to a patch surface surrounded by an acoustic material having an irregular surface texture to form a layer of textured patch material on the patch surface, wherein the hardenable flowable substance is storable in a fluid-tight dispensing container and sprayable utilizing a propellant, the hardenable flowable substance comprising:

a liquid base;

a filler selected to form an extender or bodifier for the resulting patch material;

an adhesive binder selected to adhere the resulting patch material to the surface;

fibrous materials selected to give the resulting patch material an irregular surface;

an anti-foaming agent; and

a suspension agent,

wherein the hardenable flowable substance is initially stored in fluid state and is dispensable in the form of an aerosol spray from the fluid-tight container and, after being released and curing, forms a bumpy, irregular surface texture that matches and is compatible with the acoustic ceiling material surrounding the patch.

2. The hardenable flowable substance according to claim 1, wherein the propellant is a volatile organic compound (VOC) propellant.

3. The hardenable flowable substance according to claim 1, wherein the fibrous materials are selected from the group consisting of polypropylene fibers, polyethylene fibers, plastic fibers, cotton fibers, natural fibers, and synthetic fibers.

4. The hardenable flowable substance according to claim 1, wherein the fibrous materials do not decompose in the presence of volatile organic compound (VOC) propellants.

5. The hardenable flowable substance according to claim 1, having the following composition by percentage weight:

- the liquid base of 10-60%;
- the filler of 15-70%;
- the adhesive binder of 1-50%;
- the propellant of 5-20%;
- the fibrous materials of 2-40%;
- the anti-foaming agent of 1-10%; and
- the suspension agent of 1-20%.

6. The hardenable flowable substance according to claim 1, having the following composition by percentage weight:

- the liquid base of 26-40%;
- the filler of 25-45%;
- the adhesive binder of 1.5-3.5%;
- the propellant of 10-15%;
- the fibrous materials of 10-18%;
- the anti-foaming agent of 1-5%; and
- the suspension agent of 5-10%.

7. The hardenable flowable substance according to claim 1, further comprising:
a fungicide.

8. The hardenable flowable substance according to claim 1, further comprising:
an anti-freeze.

9. A system for dispensing a hardenable flowable substance sprayable utilizing a propellant for application to a patch surface surrounded by an acoustic ceiling material having an irregular surface texture to form a layer of textured patch material on the patch surface, the system comprising:

a fluid-tight container, in which the hardenable flowable substance is stored; and
an actuator coupled to the fluid-tight container for selectively releasing the
hardenable flowable substance in the form of a spray,

wherein said hardenable flowable substance comprises,

a liquid base,

a filler selected to form an extender or bodifier for the resulting patch
material,

an adhesive binder selected to adhere the resulting patch material to the
surface,

fibrous materials selected to give the resulting patch material an irregular
surface texture,

an anti-foaming agent, and

a suspension agent,

wherein the hardenable flowable substance forms a bumpy, irregular surface texture that matches and is compatible with the acoustic ceiling material surrounding the patch.

10. The system for dispensing the hardenable flowable substance according to claim 9, wherein the fibrous materials are selected from the group consisting of polypropylene fibers, polyethylene fibers, plastic fibers, cotton fibers, natural fibers, and synthetic fibers.

11. The system for dispensing the hardenable flowable substance according to claim 9, wherein the fibrous materials do not decompose in the presence of volatile organic compound (VOC) propellants.

12. The system for dispensing the hardenable flowable substance according to claim 9, wherein the propellant is a volatile organic compound (VOC) propellant.

13. The system for dispensing the hardenable flowable substance according to claim 9, wherein the hardenable flowable substance has the following composition by percentage weight:

the liquid base of 10-60%;

the filler of 25-70%;

the adhesive binder of 1-50%;

the propellant of 5-20%;

the fibrous materials of 2-40%;
the anti-foaming agent of 1-10%; and
the suspension agent of 1-20%.

14. The system for dispensing the hardenable flowable substance according to claim 9, wherein the hardenable flowable substance has the following composition by percentage weight:

the liquid base of 26-40%;
the filler of 25-45%;
the adhesive binder of 1.5-3.5%;
the propellant of 10-15%;
the fibrous materials of 10-18%;
the anti-foaming agent of 1-5%; and
the suspension agent of 5-10%.

15. The system for dispensing the hardenable flowable substance according to claim 9, the hardenable flowable substance further comprising:

a fungicide.

16. The system for dispensing the hardenable flowable substance according to claim 9, the hardenable flowable substance further comprising:

an anti-freeze.

17. A method of repairing an acoustic ceiling material, the method comprising:

storing a hardenable flowable substance utilizing a propellant for application to a patch surface surrounded by an acoustic material having an irregular surface texture in a fluid-tight dispensing container, the hardenable flowable substance comprising:

- a liquid base,
- a filler selected to form an extender or bodifier for the resulting patch material,
- an adhesive binder selected to adhere the resulting patch material to the surface,
- fibrous materials selected to give the resulting patch material an irregular surface texture,
- an anti-foaming agent, and
- a suspension agent,

wherein the fluid-tight container has an actuator for selectively dispensing the hardenable flowable substance in the form of an aerosol spray; and

dispensing selectively the hardenable flowable substance onto the patch surface such that the hardenable flowable substance forms a layer having a bumpy, irregular surface texture after being dispensed and curing which matches and is compatible with the acoustic ceiling material surrounding the patch.

18. The method of repairing an acoustic material according to claim 17, wherein the fibrous materials are selected from the group consisting of polypropylene fibers, polyethylene fibers, plastic fibers, cotton fibers, natural fibers, and synthetic fibers.

19. The method of repairing an acoustic material according to claim 17, wherein the fibrous materials do not decompose in the presence of volatile organic compound (VOC) propellants.

20. The method of repairing an acoustic material according to claim 17, wherein the propellant is a volatile organic compound (VOC) propellant.

21. The method of repairing an acoustic material according to claim 17, wherein the hardenable flowable substance has the following composition by percentage weight:

the liquid base of 10-60%;

the filler of 25-70%;

the adhesive binder of 1-50%;

the propellant of 5-20%;

the fibrous materials of 2-40%;

the anti-foaming agent of 1-10%; and

the suspension agent of 1-20%.

22. The method of repairing an acoustic material according to claim 17, wherein the hardenable flowable substance has the following composition by percentage weight:

the liquid base of 26-40%;

the filler of 25-45%;

the adhesive binder of 1.5-3.5%;
the propellant of 10-15%;
the fibrous materials of 10-18%;
the anti-foaming agent of 1-5%; and
the suspension agent of 5-10%.

23. The method of repairing an acoustic material according to claim 17, the hardenable flowable substance further comprising:

a fungicide.

24. The method of repairing an acoustic material according to claim 17, the hardenable flowable substance further comprising:

an anti-freeze.